TYPIFICATION OF VERNONIA TENUIFOLIA SMALL AND V. JAMESII TORREY & GRAY (COMPOSITAE)

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ABSTRACT

Jones, in a study of the fasciculate group of Vernania, designated the single collection C. Wright 242 as the lectorype for both V. jameiii Torrey & Gray and V. tennifolia Small. Vernania jameiii Torrey & Gray is based on the type of V. altisima Nutt. B marginata Torrey and as such is typified by the specimen, Dr. E. P. James "On the Arkansa?," [sic] cited by Torrey. Although Small cited no specimens in his description of V. tennifolia in 1898, he did annotate the collection Wright 242 (NY), which can serve as the lectorype for that name.

In 1827 John Torrey prepared an account of the botanical specimens collected by Dr. E. P. James during the 1820 expedition to the Rocky Mountains commanded by Major Stephen H. Long. Among the taxa described as new by Torrey was *Vernonia altissima*, β marginata. Torrey questioningly placed this variety under *V. altissima*, a plant that he admittedly had not seen. Rafinesque (1832) raised Torrey's variety to specific rank as *V. marginata* (Torrey) Raf., and referred back to Torrey's original description. Later, Torrey and Gray (1841), without mentioning *V. marginata* (Torrey's *V. altissima* β *marginata* in synonymy and also gave unmistakable reference to the same collection, "On the Arkansas? Dr. James!," on which Torrey's *B marginata* was based.

Since Vernonia marginata (Torrey) Raf. (1832) and V. jamesii Torrey & Gray (1841) are based on the same type specimen the later name, V. jamesii Torrey & Gray, is superfluous.

In 1898 Small named a new species of Vernonia, V. tenuifolia, from western Texas, but did not cite specimens or designate a type. Gleason (1922) recognized Small's V. tenuifolia, but again did not designate a type; he merely stated "Type locality: Texas. Distribution: Texas." Shinners (1950) also failed to typify V. tenuifolia when he reduced it to a variety of V. marginata.

Jones (1972; Jones & Faust 1978) placed Vernonia altissima var. marginata Torrey, V. jameiii Torrey & Gray, and V. tenuifolia Small in synonymy under V. marginata (Torrey) Raf. In his 1972 paper on fasciculate vernonias Jones

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also designated lectotypes for all three names. He correctly designated the James collection from the Long Expedition as the lectotype for V. altissima var. marginata, but incorrectly designated the C. Wright 242 specimen as the lectotype for both V. jamesii and V. tenuifolia.

Since Torrey and Gray based their Vernonia jamesii on V. altissima B marginata Torrey, the James collection, the only specimen cited in their description, must also serve as the type for V. jamesii. According to Jones (1972), however, Torrey later annotated another specimen, Wright 242, as V. jamesii. This same sheet was later annotated by Small (Jones 1972), as V. tenuifolia. Jones (1972) reasoned that since Small had annotated Wright 242 as V. tennifolia Small over Torrey's annotation of the collection as V. jamesii Torrey & Gray that he (Small) was providing another name for V. jamesii. This is, however, not the case since the situation is one of taxonomy and not of nomenclature. As long as Small did not annotate the James collection, the type of V. altissima β marginata Torrey, as V. tenuifolia then it cannot be assumed that he was including it in V. tennifolia. Also, Wright 242 was collected in 1849, 22 years after Torrey named V. altissima B marginata and 17 years after Torrey and Gray's V. jamesii was published, and Wright's collection could not have been among the material on which those names were based. Furthermore, because Small did not annotate the James collection as Vernonia tenuifolia, that name cannot, as Jones concluded (1972), be considered superfluous.

The typification for Vernonia altissima Nutt. β marginata Torrey, V. marginata (Torrey) Raf., V. jamesii Torrey & Gray, and V. tennifolia Small, should be as follows:

- Vernonia altissima Nutt. β marginata Torrey, Ann. Lyceum Nat. Hist. New York 2:210. 1827. — Type: the specimen collected on Long's First Expedition, "Dr. James, On the Arkansa" (NY).
- Vernonia marginata (Torrey) Raf., Atlantic J. 1:146. 1832. Based on Vernonia altissima Nutt. β marginata Torrey.
- Vernonia jamesii Torrey & Gray, Fl. N. Amer. 2:58. 1841, nom. superfl. et illeg. — Based on the same type as Vernonia altissima Nutt. β marginata Torrey.
- Vernonia tenuifolia Small, Bull. Torrey Bot. Club 25:145. 1898. No specimens cited, typified by C. Wright 242, the specimen at NY bearing the annotation V. tenuifolia in Small's handwriting. — (LECTOTYPE (as designated by Jones 1972): NY: possible ISOLECTOTYPES: GH, 3 sheets.)
- Vernonia marginata (Torrey) Raf. var. tenuifolia (Small) Shinners. — Based on Vernonia tennifolia Small.

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COX, P.A. AND S.A. BANACK (eds.). 1991. Islands, plants, and Polynesians. An introduction to Polynesian Ethnobotany. Dioscorides Press, 9999 S.W. Wilshire, Portland, Oregon. Hardbound. \$34.95 plus \$3.75 shipping. 228 pp.

This interesting book is the Proceedings of a Symposium Sponsored by the Instrutue of Polynesian Studies, Brigham Young University-Hawaii Campus Luie, Hawaii. Ethnobotany is the study of the use of plants by indigenous peoples and in the case of this book the Polynesians. Quoting from chapter 1, by R. Raymond Fosberg, "Polynesia includes the islands scattered over a vast triangular area in the Pacific with Hawaii, Easter Island, and New Zealand as its apices, and with a scattering of outlying islands westward into Melanesia and Micronesia. All the islands are tropical or subtropical except New Zealand and its outlying islands and groups, which are temperate or even cold." The book has ten chapters and includes and index to scientific names and an index to Polynesian words.